





ASTM INTERNATIONAL (ASTM)

ASTM C 423

(2002a) Standard Test Method for Sound  
Absorption and Sound Absorption  
Coefficients by the Reverberation Room  
Method

## 1.2 SUBMITTALS

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NOTE: Review submittal description (SD) definitions in Section 01 33 00 SUBMITTAL PROCEDURES and edit the following list to reflect only the submittals required for the project. Submittals should be kept to the minimum required for adequate quality control. Include a columnar list of appropriate products and tests beneath each submittal description.

A "G" following a submittal item indicates that the submittal requires Government approval. Some submittals are already marked with a "G". Only delete an existing "G" if the submittal item is not complex and can be reviewed through the Contractor's Quality Control system. Only add a "G" if the submittal is sufficiently important or complex in context of the project.

For submittals requiring Government approval on Army projects, a code of up to three characters within the submittal tags may be used following the "G" designation to indicate the approving authority. Codes for Army projects using the Resident Management System (RMS) are: "AE" for Architect-Engineer; "DO" for District Office (Engineering Division or other organization in the District Office); "AO" for Area Office; "RO" for Resident Office; and "PO" for Project Office. Codes following the "G" typically are not used for Navy, Air Force, and NASA projects.

Submittal items not designated with a "G" are considered as being for information only for Army projects and for Contractor Quality Control approval for Navy, Air Force, and NASA projects.

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The following shall be submitted in accordance with Section 01 33 00 SUBMITTAL PROCEDURES in sufficient detail to show full compliance with the specification:

### SD-04 Samples

Provide 12 x 12 samples of [acoustical wall panels](#) and representative samples of installation devices for selection and approval of color and style by Engineer.

### 1.3 SURFACE BURNING CHARACTERISTICS

Flame spread of 25 or less; smoke developed 450 or less.

### 1.4 COLOR, PATTERN AND TEXTURE

As indicated, or, if not otherwise indicated, as selected by Engineer from manufacturer's standard.

## PART 2 PRODUCTS

### 2.1 Spline-Mounted Wall Panels

Manufacturer's standard construction synthetic facing laminated to core, edges kerfed for splines.

Core Material/NRC: Perforated mineral fiberboard/NRC 0.50-0.60 per [ASTM C 423.84](#), A(No. 4) mounting; 3/4 inch nominal thickness.

Panel Height and Width: As indicated on drawings, or, if not indicated, as selected by the Contracting Officer from the manufacturer's standard heights and widths to fit wall surfaces indicated to received [acoustical wall panels](#).

Manufacturer: Subject to compliance with requirements, provide products as manufactured by one of the following or equivalent:

Panels with Perforated Mineral Fiberboard Core:

Soundsoak Supreme; Armstrong World Industries, Inc.  
Soundsoak 60; Armstrong World Industries, Inc.  
Silent 65; Conwed Corp.

Panel with Low Density Mineral Fiberboard or Glass Fiber Core:

Soundsoak 85; Armstrong World Industries, Inc.  
Silent 85; Conwed Corp.  
Monolithic Acoustical Wall Treatment; Owens-Corning Fiberglas Corp.  
Wrapped Edge Acoustical Wall Treatment; Owens-Corning Fiberglas Corp.

### 2.2 BACK-MOUNTED EDGE-REINFORCED WALL PANELS

Manufacturer's standard construction; fabric facing laminated to edge-reinforced molded glass fiber core on front, edges, and back border.

Thickness/NRC: 1/2 inch/NRC of 0.65 per [ASTM 423.84](#), A(No. 4) mounting.

Edge Detail: Square

Panel Size: As indicated on drawings.

Manufacturer: Subject to compliance with requirements, provide products as manufactured by one of the following or equivalent:

L.E. Carpenter & Co.  
MPC Inc., Noise Control Products Division  
Peabody Noise Control Inc.  
Sound Reduction Corp.

### 2.3 BACK-MOUNTED ALUMINUM-FRAMED PANELS

Manufacturer's standard construction, fabric facing stretched over aluminum-framed glass fiber core and bonded or attached to edges and back of frame.

Thickness/NRC: 1 inch/NRC of 0.80 per ASTM C 423.84, A(No. 4) mounting.

Edge Detail: Square.

Panel Size: As indicated on drawings.

Manufacturer: Subject to compliance with requirements, provide products as manufactured by one of the following or equivalent:

Artafax Systems Ltd., Inc.  
Capaul Division, Acoustiflex Corp.  
Corporate Acoustic, Inc. (Distributor: Architectural Markets Inc.)  
Sonotrol Systems, Inc.

### 2.4 SPLINE-MOUNTING ACCESSORIES

Manufacturer's standard screw-attached aluminum or plastic connecting splines to walls, with other moldings and trim for interior and exterior corners as required.

### 2.5 BACK-MOUNTING ACCESSORIES

Mechanical fasteners including clips, hangers and other attachment components as required by manufacturer for concealed fastening to walls of back-mounted panels.

## PART 3 EXECUTION

### 3.1 GENERAL

Fabricate panels with finish facing material extended over edges. Attach or bond-facing material to core material so there are no wrinkles, sags or blisters.

### 3.2 JOB CONDITIONS

Do not begin installation until spaces to receive acoustical wall system have been enclosed and maintained at approximately same humidity and temperature conditions as planned for occupancy. Maintain temperature and humidity as recommended by manufacturer.

### 3.3 INSTALLATION

Install acoustical wall system plumb, in proper alignment, and in strict accordance with manufacturers's instructions. Arrange units symmetrically on each wall, unless otherwise indicated. Cut units to be at least 50 percent of unit width, with facing material extended over cut edge to match uncut edge.

Scribe acoustical wall units to fit adjacent work. Butt joints tightly. Apply accessories and fastenings as recommended by manufacturer.

Remove and replace panels that are damaged and are unacceptable to Contracting Officer at no additional cost to the Government.

-- End of Section --